

WHAT IS CLAIMED IS:

1. (Previously Presented) A fluid connector apparatus adapted for use with a compression apparatus, the fluid connector apparatus comprising:

5 a first connector and a second connector, the fluid connector apparatus further having a first position and a second position, both positions allow for fluid flow therethrough a fluid orifice located at the first connector;

10 the second connector is releasably attached to the first connector, at a proximal end of the orifice of the first connector, wherein the fluid orifice further includes a single valve disposed in the fluid orifice;

15 in the first position the single valve is in a substantially open position by the second connector for allowing fluid flow from the compression apparatus to a compression sleeve; and

20 in the second position the second connector is detached from the first connector, the single valve advances in a proximal direction to a closed position in the fluid orifice, the single valve substantially reducing but not closing the fluid orifice to fluid flow therethrough for approximating the

pneumatic behavior of the detached compression sleeve at the second connector.

2. through 6 (Canceled)

7. (Previously Presented) The fluid connector apparatus  
5 according to claim 1 wherein said first connector includes a cap portion disposed therein and said valve engages said cap portion for limiting the travel of the valve.

8. (Canceled)

9. (Previously Presented) The fluid connector apparatus  
10 according to claim 1 wherein said second connector includes a locking arm extending therefrom such that said locking arm is adapted to releasably retain said first connector with said second connector.

10. (Previously Presented) The fluid connector apparatus  
15 according to claim 9 wherein said first connector includes a slot for engaging said locking arm.

11. (Canceled)

12. (Previously Presented) The fluid connector apparatus  
20 according to claim 1, wherein said second connector includes an engagement portion extending therefrom and said

valve is displaced by said engagement portion when said second connector is mated to said first connector.

13. through 20. (Canceled)

21. (Previously Presented) The fluid connector apparatus  
5 according to claim 1, wherein the valve has a biasing member comprising at least one of the following: a spring, a plastic cantilever spring arm, and a elastometric material forming a gasket.

22. (Previously Presented) The fluid connector apparatus  
10 according to claim 21, wherein the valve is biased substantially open in the first position.

23. (Previously Presented) The fluid connector apparatus according to claim 1, wherein at least one of the orifice and the valve has a slot therein.

15 24. (Previously Presented) The fluid connector apparatus according to claim 1, wherein the valve further includes a plunger and a valve seat having at least one slot.

25. (Withdrawn) A method of operating the fluid compression apparatus of claim 1 to approximate the pneumatic behavior of the detached compression sleeve at the second connector comprising:

disconnecting the second connector from the first connector wherein the valve further comprises a slot therethrough at least at one of the orifice and the valve for fluid flow therethrough.